Note for users of all Epson desktop printers.
Caution: Never re-install a used black, colour or cleaning cartridge from Lyson as this will introduce air into the printer system causing nozzles to temporarily fail. If this is done accidentally leave the printer for 24 hours so that the air can dissipate naturally. (This excludes Stylus Pro models)

NB. If your Epson printer has not been used before we recommend running with Epson ink for a few days before changing to Lyson Inks.

Epson 800 / 850 / 1520
Cartridge Replacement Procedure
- When replacing an empty cartridge of the same ink type, simply hold the cartridge clean button down for 3 seconds when the ink out indicator is lit. The cartridge then moves into a position where it can be replaced.

To change an ink set follow this procedure.
1. Remove the existing cartridge set:
 - If the cartridges are empty (the red indicator lights are on for the black and colour cartridges) hold each cartridge clean button down for 3 seconds and replace the cartridges with cleaning cartridges.
 - If the cartridges are not empty, press and hold the two cartridge clean buttons simultaneously for 3 seconds. The black cartridge then moves into a position where it can be replaced. Remove the cartridge and insert a black cleaning cartridge . Then press the colour cartridge clean button. The colour cartridge then moves into a position where it can be replaced. Remove the colour cartridge and insert a colour cleaning cartridge.
2. Press the form feed button.
 The printer primes itself with cleaning fluid. This process takes around 3 minutes.
3. Go to the "UTILITIES" section of the print driver on your computer. Select "NOZZLE CHECK".
 The printer prints a pattern of lines..These lines should be quite faint as they have been printed with cleaning fluid.
4. Select "CLEAN" and then "CONFIRM"
 After the printer has printed a second pattern of lines repeat steps 1 and 2, replacing the cleaning cartridges with the new ink set. The printer primes itself with the new ink set.
5. Go to the "UTILITIES" section of the print driver and select "NOZZLE CHECK" and then "CLEAN" and then "CONFIRM".

The printer is now running with your new ink set. If any nozzles are still not printing this may be because of trapped air introduced during the cartridge changeover procedure. In this case allow the printer to stand for 2 hours before repeating a nozzle check. If any nozzles are still not printing perform one head clean and allow the printer to stand for a further hour. Repeat if necessary.

Epson 600/640/740/750/860/880/900/980/1160/1200/EX/ 870/890/1270/1280/1290/2000P
Cartridge Replacement Procedure
- When replacing an empty cartridge of the same ink type, simply hold the cartridge clean button down for 3 seconds when the "ink out" indicator is lit. The cartridge then moves into a position where it can be replaced. Insert the new cartridge and press the form feed button.

To change an ink set follow this procedure.
1. Remove existing cartridge set:
 - If both cartridges are empty (the red indicator lights are on for the black and colour cartridges) hold the cartridge clean button down for 3 seconds. Insert the new cartridges and press the form feed button.
 - If the cartridges are not empty, hold the form feed button down for 5 seconds. The cartridges then move into a position where they can be replaced.
2. Insert a set of cleaning cartridges. Press the form feed button.
 The printer primes itself with cleaning fluid. This process takes around 3 minutes.
3. Go to the "UTILITIES" section of the print driver on your computer. Select "NOZZLE CHECK".
 The printer prints a pattern of lines..These lines should be quite faint as they have been printed with cleaning fluid.
4. Select "CLEAN" and then "CONFIRM"
 After the printer has printed a second pattern of lines repeat steps 1 to 3, replacing the cleaning cartridges with the new ink set.
 The printer primes itself with the new ink set.
5. Go to the "UTILITIES" section of the print driver and select "NOZZLE CHECK" and then "CLEAN" and then "CONFIRM".
The printer is now running with your new ink set. If any nozzles are still not printing this may be because of trapped air introduced during the cartridge changeover procedure. In this case allow the printer to stand for 2 hours before repeating a nozzle check. If any nozzles are still not printing perform one head clean and allow the printer to stand for a further hour. Repeat if necessary.

EPSON STYLUS PRO 5000
Cartridge Replacement Procedure
-When replacing an empty cartridge of the same colour and ink type, simply remove the empty cartridge and insert the replacement. Continue printing.

The Stylus Pro 5000 is the only Epson printer that does not have an ink purge or prime cycle that can be easily triggered by the user. The following method uses a substantial amount of paper but the paper need not be high grade, photocopy paper will suffice.
To change ink sets, follow this procedure
1. Remove the existing cartridge set.
2. Insert a complete set of cleaning cartridges.
3. Create a file in Photoshop of block colours; cyan, magenta, yellow and black. The printer will always print a compound black (cyan, magenta and yellow in with the black channel).
4. Using scrap photocopy paper print multiple copies of this file until the colour output starts to fade. Use a high resolution setting with "No Colour Adjustment" selected in the print driver to maximize the amount of ink laid down on the paper.
5. When the colour has begun to fade, remove the cleaning cartridge set.
6. Insert the new ink cartridges.
7. Print multiple copies of the same image file until the colour is restored fully.
8. Go to the "UTILITIES" section of the print driver on your computer.
 Select "NOZZLE CHECK"
 The printer prints a pattern of lines with the new ink.
 If there are any breaks in the line select "CLEAN" and then "CONFIRM" to reprint the test pattern. When the lines are unbroken you are ready to print.

EPSON STYLUS PRO 3000/7000/7500
Cartridge Replacement Procedure
-When replacing an empty cartridge of the same colour and ink type, simply remove the empty cartridge and insert the replacement.
To change ink sets, follow this procedure.
1. Turn printer on.
2. Remove all the cartridges from the machine.
3. Turn printer off.
 The printer purges all the remaining ink from the system. This process takes around 1 minute.
4. Insert a set of cleaning cartridges. These cartridges are filled with a clear cleaning solution that will remove any traces of ink in the system and clean the print head.
5.Turn the printer on.
 The printer primes itself with cleaning fluid. This process takes around 8 minutes.)
6. Load the printer with paper.
 Go to the "UTILITIES" section of the print driver on your computer. Select "NOZZLE CHECK" .
 The printer prints a pattern of lines. These lines should be quite faint as they have been printed with cleaning fluid.
7. Select "CLEAN" and then "CONFIRM"
 The printer prints another nozzle check pattern. The cleaning fluid has now run through the printer and the machine is ready for a new ink set.
8. Repeat steps 2 - 5, replacing the cleaning cartridges with the new ink set.
9. Go to the "UTILITIES" section of the print driver on your computer.
 Select "NOZZLE CHECK"
 The printer prints a pattern of lines with the new ink.
If there are any breaks in the line select "CLEAN" and then "CONFIRM" to reprint the test pattern. When the lines are unbroken you are ready to print.

Canon S400,S4500,3000,6000,6100,S6300,6500, S8200,S800,S900,S9000
Cartridge Replacement Procedure
-To replace a used ink tank simply lift the printer lid, wait for the print head to move into position, remove the empty ink tank and replace with the new ink tank. Shut the printer lid and wait for the printer to prime itself. Perform a nozzle check from the UTILITIES menu.

-To change an ink set follow the procedure below:
1. Lift printer lid and remove the print head. Place carefully on a table on some absorbent tissue.
2. Remove all the ink tanks from the original ink set and replace with full tanks from the new ink set.
3. Re-install the print head. Wait for the printer to prime itself.
4. Go to the UTILITIES section of the print driver. Go to the CLEANING menu and select "Deep Clean". After the cleaning perform a nozzle check and then repeat the "Deep Clean". Carry out one more nozzle check.
This should be sufficient to remove any traces of residual ink from the print head. The printer is now running with the new inks.

CARTRIDGE REPLACEMENT INSTRUCTIONS
(Overleaf)

PRINTER SETUP GUIDE

COLOUR MANAGEMENT

PHOTOSHOP TIPS

Notes on Colour Management and Photoshop

Customers will notice a change in colour when moving from Epson® ink to Lyson colour inks and it is likely that some changes will be needed to restore colour accuracy. This change in colour is necessary becasue the fade resistant dyes used in Lysonic and Fotonic inks have a different colour quality to the quicker fading original inks. Also, the print driver is designed to work with the colours produced by the Epson® inks. When the inks are changed the output from the print driver is less accurate. These changes can be compensated for. There is also information at the end of this leaflet for Small Gamut and Quad Black users.

Media Handling

The Matt, Gloss and Fine Art papers compatible with Lyson inks are all heavy weight papers. These can cause problems to the sheet feed mechanisms used by the Epson® printers as they have been designed to handle thinner paper. For best results we recommend that the paper be fed to the printer one sheet at a time.

For desktop printers such as the Photo 1270 or 890, when using Fine Art paper hold the paper by the sides, not at the top, and push gently as the machine pulls on the media.

For the Epson® 3000 and 5000 keep the paper flat by feeding it through the rear sheet feeder. For the Epson® 3000 this is the slot designed to handle banner paper. Feed the paper between the sprocket units until the printer draws the paper in.
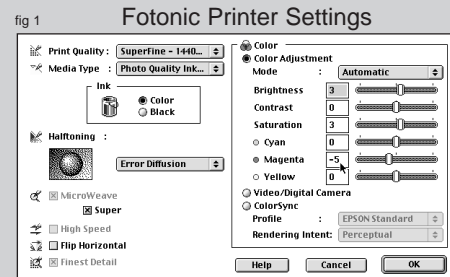
With the Fine Art paper it is sometimes difficult to detect which side of the paper is the coated side. Wet your finger and thumb and touch the paper. The coated side is the side that is sticky. Always print on this side.
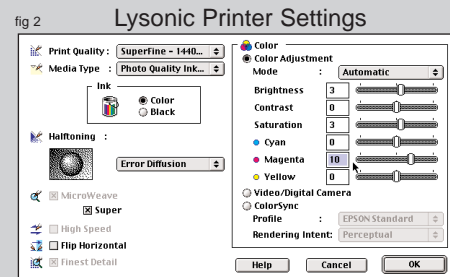
Photoshop 3/4

Follow these steps to re-calibrate your workflow

1. Change the print driver settings to match those indicated below.
2. Open an image in Photoshop that contains a wide range of colours and print it using these settings.
3. Make further adjustments to the print driver settings and reprint the image to correct the colours as best you can.
4. Adjust the monitor display to match the print out.
5. Colour correct the image in photoshop to restore the colour balance to your image on your monitor.
5. Reprint the image.
   The output should now match the colours on your monitor.
   (*The monitor only needs to be adjusted once when changing ink sets. From then on simply open your image, correct for colour and print.*)

The settings shown below (fig 1 & fig 2) are designed to bring the printed output roughly in line with the colours on your monitor. Obviously the output will vary from printer to printer, ie, the printed colours will be different on an Epson® Photo EX when compared to that of an Epson® Stylus Pro 3000. Fine tuning can be done by further adjusting the cyan, magenta and yellow sliders along with the brightness, contrast and saturation sliders.
These settings however are the best place to start.

fig 1
Fotonic Printer Settings

Brightness (+3) Saturation (+3) Magenta (-5)
Colour Adjustment Mode: **Automatic** Halftoning: **Error Diffusion**

fig 2
Lysonic Printer Settings

Brightness (+3) Saturation (+3) Magenta (+10)
Colour Adjustment Mode: **Automatic** Halftoning: **Error Diffusion**

Photoshop 5 / 6 / 7x

Users that have upgraded from Photoshop 3 / 4 will notice a difference in the way Photoshop 5/6 treats colour. There are many more colour options in Photoshop 5/6/7 that can be altered. ICC profiles are used to handle all areas of colour reproduction from your monitor display to your printer output. A complete guide to these options, ICC profiles and how to use them in your workflow can be found in the "Epson Colour Management" pdf file that can be downloaded from the technical support section of the Lyson website (www.lyson.com).

Photoshop 5x:
Go to FILE-COLOUR SETTINGS-RGB SETUP.
We recommend that "ColorMatch RGB" or "Adobe 1998" be used as an RGB colour space. (Photoshop 5 defaults to sRGB, a gamut that can introduce unwanted colour casts to your display). Ensure that the "Display using monitor compensation" box and the "Preview" box are both ticked.
Go to FILE-COLOUR SETTINGS-PROFILE SETUP.
In the "Profile Setup" dialogue box, set all options to "Ask When Opening". This ensures that Photoshop does not change any colour data when opening an image file. (Photoshop will show the message "Converting Colours" if this is happening).

Photoshop 6 / 7x:
Go to EDIT-COLOUR SETTINGS.Tick the "Advanced Mode" button.
Select "ColorMatch" or "Adobe 1998" as the RGB working space. Under "Color Management Policies" select "Preserve Embedded Profiles" and tick all the "Profile Mismatches" and "Missing Profiles" options. Under "Conversion Options" select "Adobe (ACE)" or "Heidelberg" as the Engine and "Perceptual" as the intent. Tick the "Dither" option but not the "Black Point Compensation" option. Do not activate any of the "Advanced controls"

ICC PROFILE INSTALLATION.

ICC profiles for use with Lyson inks and papers are now available. When used with compatible software they ensure perfect predictable colour for each printer/media/ink combination. To obtain these profiles on CD or floppy disk contact your local distributor. Alternatively visit their website to download the relevant profile. The profiles are also available in the technical support section of the Lyson website (www.lyson.com). Each of the profiles when downloaded is accompanied by a pdf acrobat® formated instruction document. Be sure to read this before attempting any printing. If downloading from the windows section of the Lyson website you will need "winzip" to decode the file. (www.winzip.com). If downloading from the Macintosh section of the Lyson website you will need the "StuffIt" expander software (www.alladinsys.com), usually pre-installed with Internet Explorer® 5.

Further information on Colour Management can be found in the "Epson Colour Management" pdf file. Custom Profiles for specific combinations of printers and papers can also be purchased from third party vendors.

This is recommended for the most accurate colour reproduction.

QUAD BLACK SETUP INFORMATION

The **Quad Black** inks set use different dilutions of black ink to achieve a wide tonal range and "lock in" the colour. This ink is available in "Neutral" tone and for selected printers there are "Warm" and "Cool| tones also available. Before using Quad Black follow the cleaning procedure detailed overleaf, then replace the cleaning cartridges with the Quad Black cartridge set.

For best results prepare your black and white image in RGB mode in Photoshop. If you have a full colour image simply convert to greyscale then back to RGB.(IMAGE-MODE-GREYSCALE/RGB). Then send the image to be printed using the "No Colour Adjustment" option in your Epson print driver. Changing the media selection will affect the density and contrast of your print. Experiment to find the one that works best for you.

Quad Black Inks have a very wide tonal range that responds extremely well to the data contained in your image file. Absolute blacks will only be printed if your file contains this information. Use the Histogram option in Photoshop and the Levels tool to ensure the widest tonal range possible.

SMALL GAMUT SETUP INFORMATION

SG inks enable the user to "tone" their black and white images. Full details on the use of these inks can be found in the Small Gamut User Guides that are available at the Lyson Website (www.Lyson.com). ICC profiles are also available for a limited range of printers for users of Photoshop 5 / 6 / 7x.

For earlier Epson four colour printers such as the Stylus Color 860/1160 models, excellent results can be obtained by selecting the "No Colour Adjustment" option in the Epson printer driver. Experiment with the Media settings for different densities of print. All six colour "Photo" printers such as the Stylus Photo 890 require the use of the matching printer profile for the Printer/Paper combination you are using. Go to the Lyson website for the profile you require**.**